



Specifications

- Covers the basic applications of transistors such as BJT, FET, MOSFET, and UJT etc.
- On-board resources such as Resistor, Capacitor, Inductor, Diode and Potentiometer banks of different values are provided
- On-board regulated variable and isolated power supplies
- Dual DC 0 to 30V variable on-board power supply
- Application study of different types of Transistors includes NPN, BC-107, 2N2222 and BD-138 PNP Transistor and power Transistor like SL-100
- Also other types of Transistors such as FET (BFW-10), MOSFET (IRF-Z44N) and UJT (2N-2646) are available on-board
- Resistor, Capacitor, Inductor bank
- Potentiometer bank
- Diodes bank (Rectifier Diode, Zener Diode and LED)
- Bread board

Experiments

- To identify and check type of Transistor NPN, PNP
- BJT as Switch

Amplifier

- Logic gates using BJT
- BJT as a DC amplifier
- CE amplifier-frequency response, signal handling capacity, input and output impedance
- Cascade amplifier-frequency response, signal handling capacity, input and output impedance

Feedback amplifier

- Voltage series feedback (negative) amplitude, frequency response, input and output impedance calculation
- Class-A / Class-B power amplifier

Regulator

- Series and shunt regulator, calculate ripple factor

FET / MOSFET

- FET common source amplifiers, gain versus frequency, bandwidth, input /output impedance and maximum signal handling capacity
- FET biasing circuit (self, voltage divider, fixed)
- Many more

Note: Specifications are subject to change.